Supplementary Table S3. Table 1. Retinal thickness in each retinal complex or layer at different months of age for the two study groups. The values are expressed as mean ± standard deviation. (RNFL: retina nerve fiber layer; GCL: ganglion cell layer; IPL: inner plexiform layer, INL: inner nuclear layer; OPL: outer plexiform layer; ONL: outer nuclear layer, WT: wild type.

	Retinal complex/ layers	**RNFL+GCL**			**IPL**			**INL**			**OPL**			**ONL**		
Months of age	**Retinal sectors**	**WT**	**APP$^{NL-F/NL-F}$**	**P-Value**	**WT**	**APP$^{NL-F/NL-F}$**	**P-Value**	**WT**	**APP$^{NL-F/NL-F}$**	**P-Value**	**WT**	**APP$^{NL-F/NL-F}$**	**P-Value**	**WT**	**APP$^{NL-F/NL-F}$**	**P-Value**
		MEAN±SD	MEAN±SD		MEAN±SD	MEAN±SD		MEAN±SD	MEAN±SD		MEAN±SD	MEAN±SD		MEAN±SD	MEAN±SD	
6 Months	**N1**	23.33±1.033	20.67±2.251	**0.043**	46.17±3.125	47.5±1.378	0.323	19.5±0.5477	18.67±1.751	0.708	19.83±1.602	20.67±1.033	0.446	51.33±4.633	43.33±2.733	**0.011**
	N2	21.17±0.7528	20.83±1.472	>0.999999	47.33±2.944	46.17±3.312	0.615	20.33±0.5164	18.33±1.633	0.032	19.5±1.643	21±1.789	0.167	48.83±5.154	41±3.033	**0.022**
	S1	24.67±1.751	23.33±1.366	0.199	45.33±3.011	47.5±3.017	0.301	20.67±1.033	19±1.549	0.067	19.67±1.033	22±0.6325	**0.004**	47.33±3.983	43.5±3.564	0.095
	S2	22±2.098	23.17±2.787	0.377	46.83±2.858	47±4	0.623	20.5±1.643	18.67±1.211	0.097	19.83±1.472	22±0.8944	**0.013**	50.5±3.728	46.83±3.488	0.206
	T1	22.5±1.049	21.33±0.8165	0.108	47.17±3.371	46.33±2.16	0.719	20.33±0.8165	18±1.265	0.009	20.17±1.329	20.67±1.033	0.652	55.33±3.983	42.5±1.643	**0.002**
	T2	21.67±0.5164	20.17±1.472	0.080	47±2.608	48.33±3.077	0.673	20.67±1.211	18.67±0.8165	0.022	21±1.095	21.67±0.8165	0.489	52±3.347	40.17±3.061	**0.002**
	I1	23.67±1.633	21.33±0.5164	**0.013**	46.17±2.401	46.5±1.761	0.779	21.33±1.862	19.17±1.329	0.078	21±1.265	20.83±0.9832	0.777	51±4.336	44.33±0.8165	**0.009**
	I2	22.67±1.506	19.67±1.211	**0.013**	47.83±4.579	48.5±2.168	0.861	21.5±0.5477	18.5±0.5477	0.002	22.17±1.169	21.33±1.211	0.355	53.5±4.764	44.5±2.429	**0.004**
9 Months	**N1**	23.17±1.169	21.5±2.811	0.182	46±2.28	45.83±4.446	0.853	21±1.265	19.17±3.189	0.517	18.5±1.225	18.83±0.9832	0.864	57.33±8.287	48.67±1.966	**0.019**
	N2	21.67±0.8165	19.83±2.229	0.113	45.5±2.168	45.67±5.279	0.519	20.5±1.049	19.33±2.733	0.483	18.17±1.472	19±2.191	0.491	52.33±6.89	48.67±2.733	0.461
	S1	26.67±3.204	24.33±2.582	0.264	44±4.94	45.67±2.658	0.413	23.33±4.367	19.67±3.011	0.139	18.5±1.871	20.5±1.517	0.091	56±9.274	48.83±1.941	0.251

	S2	24±3.098	24.17±4.07	0.987	44.33±3.204	43.17±5.037	0.619	22.5±3.271	20.33±3.011	0.212	19.33±2.16	21.67±1.033	0.056	51.67±5.203	51.17±2.317	0.903
	T1	23.67±0.5164	22±1.414	**0.045**	46.5±1.761	47±4.29	0.656	21.33±1.211	18.67±2.658	0.113	18±1.549	18.83±1.941	0.446	53.67±6.186	49.17±1.835	0.160
	T2	20.67±0.8165	20.83±0.7528	0.892	47.17±2.137	46.17±4.07	0.851	21.67±1.033	19.5±2.51	0.145	18.83±1.169	20.5±1.871	0.147	49.17±3.371	49.33±1.633	0.911
	I1	23.33±1.211	23.17±1.169	0.935	45.33±1.966	44.17±3.971	0.790	22.33±1.211	19.67±1.862	0.035	18.33±1.366	19.17±1.835	0.584	53±2.828	47.83±2.229	**0.011**
	I2	21.33±1.033	19.67±1.506	0.084	46.5±2.074	46.33±4.179	0.950	21.5±0.8367	19.67±2.066	0.171	19.33±1.862	19.67±1.966	0.745	51.33±6.121	50.67±1.033	0.848
12 Months	**N1**	23.33±3.445	20.83±1.472	0.104	47.5±2.665	46.5±1.225	0.524	19.83±1.722	20.17±1.722	0.864	19.83±0.7528	18.83±1.722	0.431	51.83±4.215	45.33±3.141	**0.022**
	N2	22.83±2.787	20.5±2.168	0.128	45.17±3.189	46±1.414	0.794	20±1.673	20.33±1.366	0.788	20.17±1.169	19.5±1.643	0.552	51.33±4.803	43.5±3.834	**0.019**
	S1	25.5±3.017	23.5±2.345	0.260	47±6.293	46.5±1.871	0.619	21.5±1.643	21.33±1.862	0.905	20.5±1.049	20.17±2.483	0.998	50±4.05	45.5±3.082	0.076
	S2	25±4.147	22.17±3.125	0.403	43.5±4.889	45.5±2.51	0.626	21.5±2.074	21.17±1.941	>0.999999	20.67±0.5164	20.17±2.137	0.805	51.83±0.7528	47±3.406	**0.006**
	T1	23.5±2.258	21.33±1.033	**0.039**	47.33±3.83	46.5±1.378	0.848	20.17±2.401	19.67±1.751	0.894	19.33±0.5164	19±2.191	>0.999999	51.33±4.457	45.83±2.858	**0.045**
	T2	21.17±1.835	20.67±1.862	0.571	46±3.521	45.5±1.517	0.810	21.5±2.074	21±1.673	0.751	20.5±0.8367	20.17±1.602	0.784	50.67±3.933	43.17±3.656	**0.011**
	I1	24.5±1.871	22.17±1.169	**0.022**	47.83±4.834	45.83±0.9832	0.868	20.33±1.966	20.5±1.049	0.838	20.33±1.033	19.17±1.722	0.184	50.17±4.167	45.33±1.966	**0.028**
	I2	22.33±1.966	20.5±2.074	0.206	46.67±3.559	45.67±1.033	0.552	20.83±1.941	21.33±1.633	0.506	21.83±1.169	20±1.265	**0.048**	53.67±4.367	48.5±2.881	**0.037**
15 Months	**N1**	22.5±0.5477	21.17±1.472	0.130	47.17±3.061	45.33±1.633	0.333	19.67±1.751	20.5±1.517	0.489	20.67±1.862	18.67±1.366	0.113	46.5±2.258	44.83±1.602	0.188
	N2	21.67±0.8165	20.17±1.169	**0.043**	45.5±3.619	45.33±2.066	0.654	20.17±1.722	21.17±1.472	0.340	20.67±2.251	18.33±1.033	0.067	45.5±2.258	44.67±1.862	0.476
	S1	24±1.265	25.17±2.401	0.255	44.17±1.169	45.5±2.258	0.355	21.67±1.506	22.17±1.169	0.481	21.17±0.9832	19.17±1.472	**0.035**	44.83±2.858	44.5±1.975	0.814
	S2	21.5±1.871	24.83±2.858	**0.024**	46.17±1.835	44.17±2.714	0.210	21.17±2.041	21.83±1.941	0.565	21.83±0.7528	20±1.789	0.067	46.67±2.582	46.67±1.633	0.810

	T1	23.67±1.366	23±1.789	0.446	44.17±1.722	44.83±1.169	0.565	20.67±2.066	21±1.095	0.680	20.33±0.8165	18.33±1.366	**0.022**	46.67±1.966	46.83±2.137	0.981
	T2	21.67±1.366	22.83±2.483	0.483	44.5±1.517	43.33±1.633	0.216	21.83±1.941	21.33±1.506	0.825	20.83±1.472	20.33±1.211	0.450	45±2.098	44.17±1.941	0.567
	I1	24.67±1.366	24±2.28	0.418	45.83±4.535	44.5±0.8367	0.736	20.33±2.066	22.17±0.7528	0.093	21.67±1.366	19.17±1.941	**0.039**	47.67±1.633	44.5±2.258	**0.026**
	I2	22.67±0.5164	22.33±2.658	0.385	45.5±2.258	46±2.098	0.777	21.5±1.517	21.17±1.722	0.946	22.67±1.033	20.5±1.049	**0.015**	49.83±1.472	47.17±2.137	**0.041**
17 Months	**N1**	22.67±0.8165	22±1.897	0.621	45.5±3.017	46.17±2.927	0.690	18.5±0.5477	21±1.414	0.009	20.5±1.049	19.33±1.506	0.234	46.67±3.983	45.67±2.251	0.294
	N2	21.67±1.033	20±2.28	0.119	44.33±3.204	46±1.095	0.381	19±0	22±1.265	0.002	20.83±1.472	19±2.449	0.180	46.67±6.501	43.83±2.994	0.115
	S1	26.17±3.545	24±1.673	0.374	48.33±5.574	45.5±1.871	0.251	18.5±0.5477	21.5±2.258	0.028	20.33±0.5164	20.17±1.472	>0.999999	45.33±2.875	44.17±1.169	0.171
	S2	21.67±2.805	20.67±2.066	0.905	47.83±3.312	45.67±2.338	0.258	19.33±1.751	22±2.098	0.039	21.5±1.049	20.5±1.643	0.374	49.33±4.502	45±1.673	**0.024**
	T1	22.83±1.722	22.5±1.225	0.803	46.83±3.312	44.83±0.9832	0.258	17.67±0.8165	20.17±1.472	0.015	20.17±0.9832	19.83±2.137	0.866	47±3.225	45.67±2.875	0.212
	T2	21.17±1.329	21±1.414	0.909	46.67±1.211	45±1.095	0.067	18.67±0.8165	21.83±1.602	0.006	21.67±1.211	21.17±1.722	0.654	46.83±4.997	44.5±2.811	0.095
	I1	22.83±0.7528	23.67±1.366	0.314	45±1.414	45.33±2.16	0.892	18.5±1.517	21.17±0.7528	0.011	21.5±0.8367	20.33±1.966	0.184	45.67±5.164	45.5±1.761	0.699
	I2	21.17±1.835	21.5±0.8367	0.784	45±3.347	45.67±1.033	0.788	18.83±1.472	22.33±0.8165	0.002	22±1.095	22.17±1.329	0.987	50.33±3.983	47.33±1.506	0.158
20 Months	**N1**	23.17±1.169	21.83±1.329	0.143	46.33±2.338	43.67±2.16	0.082	19.17±1.722	21.5±0.8367	0.032	21±0.8944	19.17±2.787	0.253	47.17±1.941	43.17±2.137	**0.009**
	N2	21.17±0.7528	21.83±2.137	0.537	47.83±2.229	43±2.828	**0.006**	19.33±1.506	20.67±1.033	0.156	21.17±0.7528	18.83±2.858	0.076	40.83±2.137	41.33±4.179	0.857
	S1	24.67±1.033	23.33±0.8165	0.065	46.17±3.189	42.33±2.582	0.056	19.83±2.401	21.5±0.5477	0.141	19.83±1.329	19.5±2.588	>0.999999	42±2.28	40.83±3.43	0.671
	S2	20.5±1.225	21.5±1.871	0.409	49.17±2.041	42.67±2.582	**0.002**	20.17±2.563	20.83±0.9832	0.578	21±1.265	20.17±2.483	0.561	43.5±2.881	42.83±2.401	0.597
	T1	22.5±1.761	22.17±1.722	0.745	48.5±3.782	43.33±2.16	**0.032**	18±1.265	20.33±1.506	0.011	20±0.8944	19.33±2.875	>0.999999	51.17±4.309	42.83±4.167	**0.015**

T2	20.83±0.7528	21±0.6325	0.864	47.67±2.805	42.83±2.639	**0.006**	19.83±1.329	21.33±1.366	0.080	21±0.8944	20.33±2.805	>0.999999	44.5±2.074	41.5±4.889	0.335
I1	24.67±1.862	22.5±1.517	0.097	47.17±4.622	44.17±2.137	0.234	19.5±2.074	21±1.789	0.247	21.33±0.5164	19.33±2.805	0.385	45.5±3.937	42.5±1.871	0.203
I2	21.83±1.169	21.83±1.472	0.989	46.5±2.881	43.5±3.209	0.177	20.17±2.229	21.67±2.066	0.420	22.67±0.8165	21.17±1.941	0.201	47±2.683	44.83±1.941	0.167